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JUNE 15, 2001

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ARTER & HADDEN LLP
JAMES C. SCOTT, ESQ.
1100 HUNTINGTON BUILDING
925 EUCLID AVENUE
CLEVELAND, OHIO 44115

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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RECORDATION DATE: 03/19/2001

REEL/FRAME: 011664/0182

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

STEFANOV, MICHAEL E.

DOC DATE: 01/30/2001

ASSIGNOR:

GANDHI, JIGNESH V.

DOC DATE: 01/30/2001

ASSIGNEE:

HANA MICRODISPLAY TECHNOLOGIES,
INC.
2061 CASE PARKWAY SOUTH, UNIT 6
TWINSBURG, OHIO 44087

SERIAL NUMBER: 09758775

FILING DATE: 01/11/2001

PATENT NUMBER:

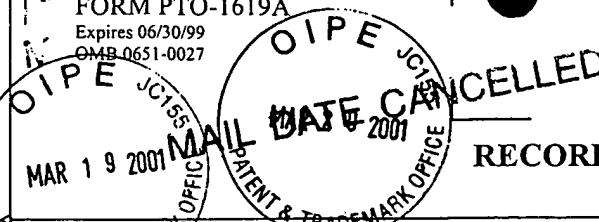
ISSUE DATE:

JOANN STEWART, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

3-19-01

FORM PTO-1619A
Expires 06/30/99
OMB 0651-0027

04-16-2001

U.S. Department of Commerce
Patent and Trademark Office
PATENT

101664139

RECORDATION FORM COVER SHEET
PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

 New (DOCKET NO. 72880/04796) Resubmission (Non-Recordation)
Document ID# Correction of PTO ErrorReel # Frame # Corrective DocumentReel # Frame #

Conveyance Type

 Assignment Security Agreement License Change of Name Merger Other

U.S. Government

(For Use ONLY by U.S. Government Agencies)

 Departmental File Secret File

Conveying Party(ies)

 Mark if additional names of conveying parties attachedName (line 1) Jignesh V. GandhiExecution Date
Month Day Year
1/30/01Name (line 2)

Execution Date

Second Party

Name (line 1) Michael E. StefanovExecution Date
Month Day YearName (line 2)

Receiving Party

 Mark if additional names of conveying parties attachedName (line 1) HANA Microdisplay Technologies, Inc. If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached.
(Designation must be a separate document from Assignment.)Name (line 2) Address (line 1) 2061 Case Parkway South, Unit 6Address (line 2) Address (line 3) Twinsburg Ohio

City

State/Country

44087

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name (line 1) Address (line 1) Address (line 2) Address (line 3) Address (line 4)

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04/13/2001 DBYRNE 00000117 500902 09758775

40.00 CH

FC:581

Correspondent Name and Address

Area Code and Telephone Number

(216) 696-4494

Name

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

Pages #

Application Number(s) or Patent Number(s)

Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

Month Day Year

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

PCT

PCT

PCT

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$

Method of Payment: Enclosed

Deposit Account:

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: #

Docket No.

Authorization to charge additional fees: Yes No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.


James C. Scott, Esq.

Signature

Date

ASSIGNMENT

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of Ten Dollars (\$10.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR: Name: Jignesh V. Gandhi
Address: 2515A, Colony Park Place
Stow, Ohio 44224
County: Summit

ASSIGNOR: Name: Michael Stefanov
Address: 2894 Duquesne Drive
Stow, Ohio 44224
County: Summit

hereby sell, assign and transfer to

ASSIGNEE: Name: HANA Microdisplay Technologies, Inc.

Principal Place
Of Business: 2061 Case Parkway South, Unit 6
Twinsburg, Ohio 44087

State of
Incorporation: Ohio

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled:

**ENHANCED CONTRAST RATIO FOR TWISTED NEMATIC LIQUID CRYSTAL
DEVICES**

and which is found in (37 C.F.R. § 3.21)

U.S. patent application executed on the _____ day of _____, 2001.

U.S. patent application executed on the _____ day of _____, 2001.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, we, as ASSIGNOR(S)

signing below, hereby authorize and request our attorney to insert below the filing date and application number when they become known.

U.S. application No. _____, filed on _____

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for such invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent, any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Signed at TWINSBURG, OHIO on this
(City) (State)

30th day of JANUARY, 2001.
(day) (Month)

JIGNESH V. GANDHI

* * * * *

Signed at _____, _____ on this
(City) (State)
____ day of _____, 2001.
(day) (Month)

MICHAEL STEFANOV

557508

RECORDATION FORM COVER SHEET PATENTS ONLY

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) or copy(ies).

Submission Type

New (DOCKET NO. 72880/04795)

Resubmission (Non-Recordation)
Document ID#

Correction of PTO Error

Reel # Frame #

Corrective Document

Reel # Frame #

Conveyance Type

Assignment

Security Agreement

License

Change of Name

Merger

Other

U.S. Government

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Departmental File

Secret File

Conveying Party(ies)

Mark if additional names of conveying parties attached

Execution Date
Month Day Year

1/19/01

Name (line 1) James Anderson

Name (line 2)

Second Party

Name (line 1) Michael E. Stefanov

Name (line 2)

Execution Date

Month Day Year

1/19/01

Receiving Party

Mark if additional names of conveying parties attached

If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached.
(Designation must be a separate document from Assignment.)

Name (line 1) HANA Microdisplay Technologies, Inc.

Name (line 2)

Address (line 1) 2061 Case Parkway South, Unit 6

Address (line 2)

Address (line 3)

Twinsburg Ohio

City State/Country

44087

Zip Code

Domestic Representative Name and Address

Enter for the first Receiving Party only.

Name (line 1)

Address (line 1)

Address (line 2)

Address (line 3)

Address (line 4)

FOR OFFICE USE ONLY

Correspondent Name and Address

Area Code and Telephone Number **(216) 696-4494**

Name **James C. Scott, Esq. (Registration No. 35,351)**
Address (line 1) **Arter & Hadden LLP**
Address (line 2) **1100 Huntington Building**
Address (line 3) **925 Euclid Avenue**
Address (line 4) **Cleveland, Ohio 44115**

Pages Enter the total number of pages of the attached conveyance document
including any attachments. # **2**

Application Number(s) or Patent Number(s)

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

Patent Number(s)

09/727.092

Month Day Year

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Patent Cooperation Treaty (PCT)

PCT

PCT

PCT

Enter PCT application number
only if a U.S. Application Number
has not been assigned.

PCT

PCT

PCT

Number of Properties

Enter the total number of properties involved. #

Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$ **40.00**

Method of Payment:

Enclosed **X**

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number: # **50-0902**

Docket No. 72880/04795

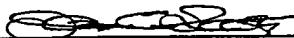
Authorization to charge additional fees:

Yes **X**

No

Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.



James C. Scott, Esq.

Signature

FEB. 1, 2001

Date

ASSIGNMENT

In consideration of the payment by ASSIGNEE to ASSIGNOR(S) of the sum of Ten Dollars (\$10.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR: Name: James Anderson
Address: 1345 Merilene Road
County: Cuyahoga Falls, Ohio
Summit

ASSIGNOR: Name: Michael Stefanov
Address: 2894 Duquesne Drive
County: Stow, Ohio 44224
Summit

hereby sell, assign and transfer to

ASSIGNEE: Name: HANA Microdisplay Technologies, Inc.

Principal Place
Of Business: 2061 Case Parkway South, Unit 6
Twinsburg, Ohio 44087

State of
Incorporation: Ohio

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions, and in all foreign countries, including all rights to claim priority in and to any and all improvements which are disclosed in the invention entitled:

HIGH CONTRAST REFLECTIVE LIGHT VALVE

and which is found in (37 C.F.R. § 3.21)

U.S. patent application executed on the 19th day of January, 2001.

U.S. patent application executed on the 15th day of January, 2001.

To comply with 37 C.F.R. § 3.21 for recordal of this assignment, we, as ASSIGNOR(S) signing below, hereby authorize and request our attorney to insert below the filing date

and application number when they become known.

U.S. application No. _____, filed on _____

and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for such invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent, any reissue or re-examination thereof.

ASSIGNOR(S) hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNOR(S) further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR(S) and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

Signed at Cuyahoga Falls, Ohio on this

J (City)

(State)

19th day of January, 2000.

(day)

(Month)


JAMES ANDERSON

* * * * *

Signed at Stow, Ohio on this

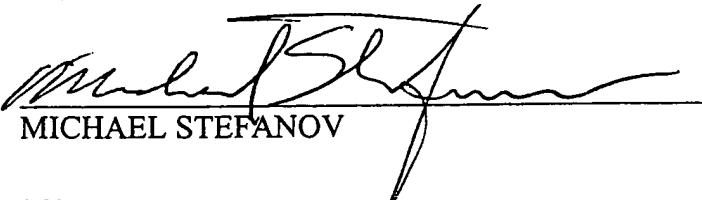
(City)

(State)

19th day of January, 2000.

(day)

(Month)


MICHAEL STEFANOV

549512